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Preservation Metadata for Electronic Archives

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Preservation Metadata for Electronic Archives

Janet V. Addison
Purdue University Libraries

Panel on Electronic Archives
Society of Indiana Archivists Meeting
March 31, 2007

Overview

- Institutional environment
- What is preservation metadata
- Using the RLG report
- Institutional choices and practices
- Preservation metadata in the record for the digital object

E-Scholar: Archives, Pubs, Data

Purdue e-Scholar - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://escholar.lib.purdue.edu/

Search "rose photographers" indiana


Purdue e-Scholar Libraries

Collections of research data, publications, and archives created and curated by Purdue University

Search Beta version


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e-Archives



The digitized archives and special collections of Purdue University

e-Pubs



A digital document repository including e-books, papers, reports, dissertations, journal articles, and other documents by Purdue authors

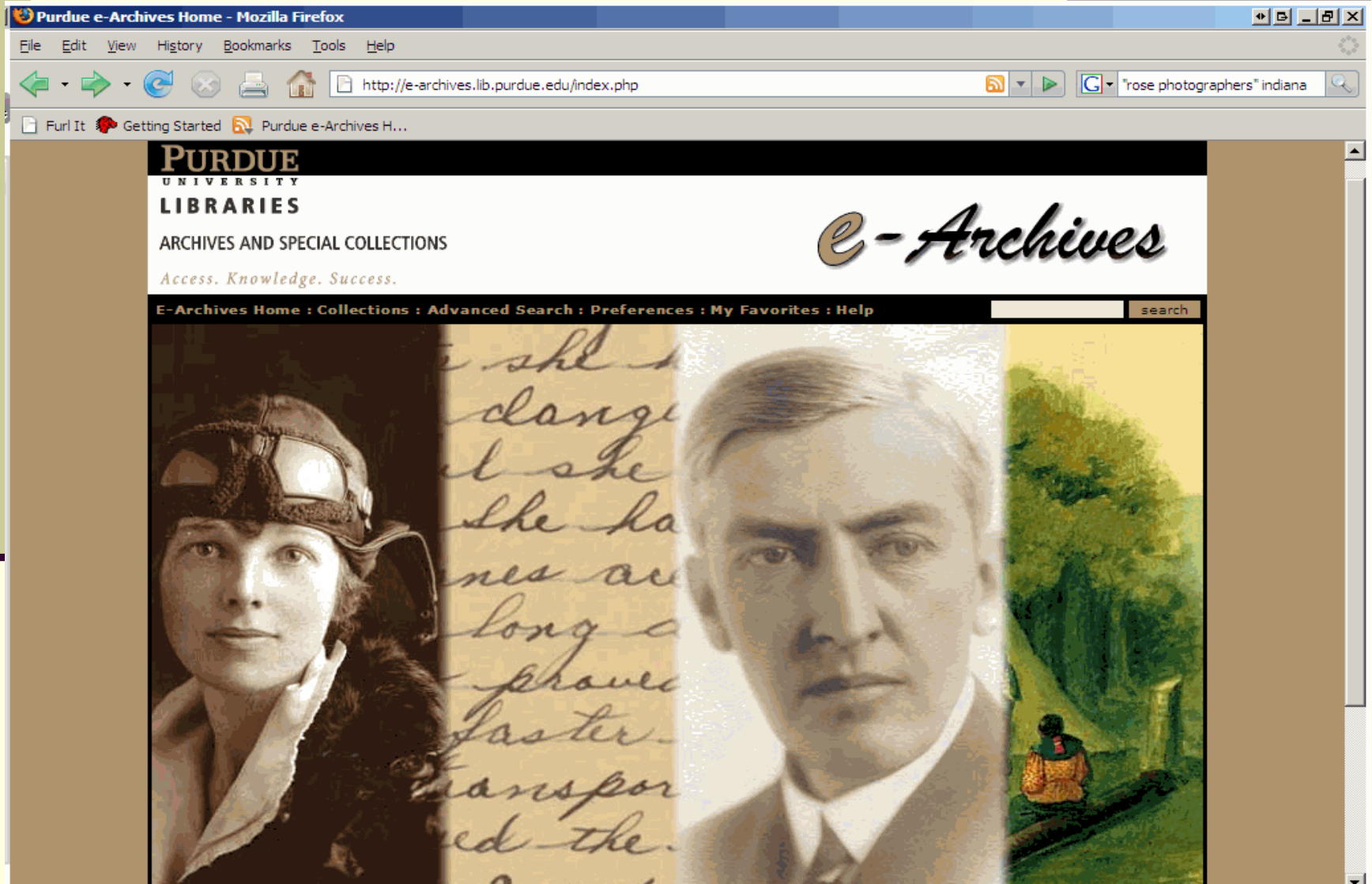
e-Data



An online research data repository containing data sets and data files of Purdue researchers

PURDUE UNIVERSITY

E-Archives Home Page



Current collections in e-Archives

- Finding Aids (select)
- George Palmer Putnam Collection of Amelia Earhart Papers
- Purdue History: Amelia Earhart at Purdue; Purdue Buildings and Campus Scenes; Purdue History in Photographs; Purdue University Newsreels
- Gilbreth Library of Management Videos
- Helen Gougar pamphlet

Preservation metadata for electronic records

- Preservation metadata: the information that supports the processes associated with *digital preservation*
- Preservation metadata is the information necessary to maintain the viability, renderability, and understandability of digital resources over time

Examples of preservation metadata

- **Provenance**

Who has had ownership of the digital objects

- **Technical environment**

What is needed to render and use the digital object

- **Preservation activity**

What has been done to preserve the digital object

- **Rights management**

What intellectual property rights are to be observed

- **Authenticity**

Is the digital object what it purports to be

Why preservation metadata is important

- Digital objects are bound by intellectual property rights
- Digital objects are technology-dependent
- Digital objects are mutable
- Digital objects need to become self-documenting over time

Methodology of the Digital Initiatives Team (DIGITs)

- RLG Working Group on Preservation Issues of Metadata Final Report, May 1998
- <http://www.rlg.org/preserv/presmeta.html>
- RLG=Research Libraries Group; now RLG Programs, part of OCLC's Programs and Research division
- Discussion of the 16 elements
- Emphasis on *what* preservation metadata is collected rather than *how* it is collected

The Sixteen Elements

- Date
- Transcriber
- Producer
- Capture device
- Capture details
- Change history
- Validation key
- Encryption
- Water mark
- Resolution
- Compression
- Source
- Color
- Color management
- Color bar/Gray scale bar
- Control targets

DIGITs Team choices for metadata fields—our choices in red

- Date
- Transcriber
- Producer
- Capture device
- Capture details
- Change history
- Validation key
- Encryption
- Water mark
- Resolution
- Compression
- Source
- Color
- Color management
- Color bar/Gray scale bar
- Control targets

Preservation metadata fields set up along with descriptive metadata fields in Contentdm

http://e-archives.lib.purdue.edu/cgi-bin/admin/editconf.exe?CISODB=/puhistphot

Back Next Stop Refresh Home

8	Repository	Publisher	Text	No	No	No	No	move to	edit delete
9	Date of Original	Date	Text	No	Yes	No	No	move to	edit delete
10	Extent of Original	Source	Text	No	No	No	No	move to	edit delete
11	Orientation	None	Text	No	Yes	No	No	move to	edit delete
12	Collection	Relation	Text	No	No	No	No	move to	edit delete
13	Date Scanned	Date	Text	No	Yes	No	No	move to	edit delete
14	Type	Type	Text	No	No	No	No	move to	edit delete
15	Format	Format	Text	No	No	No	No	move to	edit delete
16	Rights	Rights	Text	No	No	No	No	move to	edit delete
17	Capture Device	None	Text	No	No	No	No	move to	edit delete
18	Capture Details	None	Text	No	No	No	No	move to	edit delete
19	Validation Key	None	Text	No	No	Yes	No	move to	edit delete
20	Resolution	None	Text	No	No	No	No	move to	edit delete
21	Color Depth	None	Text	No	No	No	No	move to	edit delete
22	Color Management	None	Text	No	No	No	No	move to	edit delete
23	Binder Number	None	Text	No	Yes	No	No	move to	edit delete

Contentdm Template Creator: preservation metadata fields populated with content

Template Creator

Create a metadata template for all items you import. Click a field in the Default Properties column to choose a data type. Enter text or a directory in the Default Value column where appropriate.

Field Name	Default Properties	Default Value
Date of Original	Text	
Extent of Original	Text	
Orientation	Text	
Collection	Text	Purdue History in Photographs
Date Scanned	Text	
Type	Text	image
Format	Text	jpeg
Rights	Text	Copyright Purdue University Libraries. All rights reserved.
Capture Device	Text	Epson Expression 10000XL Photo Scanner
Capture Details	Text	Silverfast 6.4.1 r8c by Lazersoft
Validation Key	Checksum	
Resolution	Text	
Color Depth	Text	24 bit
Color Management	Text	Monaco EZcolor using an IT8 target
Binder Number	Text	

OK Cancel

Load file prepared by student workers: also contains content to populate record fields

[illegible]

How it looks in the public interface: photographic image



Courtesy Purdue University Libraries, Archives and Special Collections


How it looks in the public interface: the record

Purdue University E-Archives : Item Viewer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail New Window Open Recent

Address http://e-archives.lib.purdue.edu/cdm4/item_viewer.php?CISOROOT=/puhistphot&CISOPTR=244&CISOBX=1&REC=1 Links >>



Courtesy Purdue University Libraries, Archives and Special Collections

Purdue ID number PPH00234

Title President E.C. Elliott, Herman B Wells, and Dr. E.L. Butz

Description Photograph of President E.C. Elliott, November 24, 1941, Dr. H.B. Wells (Indiana University and Speaker at Ag Luncheon), and Dr. E.L. Butz of Farm Management Dept. at Purdue. Photograph by J.C. Allen and Son

Subjects Elliott, Edward C. (Edward Charles), 1874-1960
Wells, Herman B
Butz, Earl L. (Earl Lauer), 1909-
Purdue University
Photographic prints

Creator J.C. Allen & Son

Repository Purdue University Library, Archives and Special Collections

Date of Original 1941-11-24

Extent of Original 1 photograph : b&w ; 12 x 17 cm.

Orientation Landscape

Collection Purdue History in Photographs

Date Scanned 2/27/2007

Type image

Format jpeg

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Capture Device Epson Expression 10000XL Photo Scanner

Capture Details Silverfast 6.4.1 r8c by Lazersoft

Resolution 600 ppi

Color Depth 24 bit

Color Management Monaco EZcolor using an IT8 target

Binder Number 99A

Full resolution PUHP25\PPH00234.tif

Internet

Next steps: investigating automated strategies

- Preservation Metadata Implementation Strategies Working Group <http://www.oclc.org/research/projects/pmwg/>
Includes data dictionary (237 p.) and final report (53 p.)
- Automated tools: tools for identifying file formats and automatically extracting metadata (JHOVE, DROID, NLNZ Preservation Metadata tool)
- Identifying gaps (e.g., recording of preservation events)
- Extending our preservation metadata activities to include other areas of the digital library
- If necessary to import metadata from one repository to another: investigate profiles for exchanging metadata through METS (Metadata Encoding and Transmission Standard)

Summary

- Know your institutional strengths
- Consider your goals– short and long term: access continuity and sustainability
- Start simple
- Automated or manual collection of preservation metadata– or both
- Investigate what other libraries are doing
- Learn while developing skills and expertise
- Involve IT department if possible
- Document your decisions
- Evaluate decisions on regular schedule

Sources

- RLG working group final report

<http://www.rlg.org/preserv/presmeta.html>

- “Preservation Metadata Initiatives: Status and Direction,” Brian Lavoie, Archiving Web Resources conference, 2004

<http://www.oclc.org/research/presentations/lavoie/canberra2004.ppt>

- “Preservation Metadata: Adapting or Adopting PREMIS for APSR,” Bronwyn Lee and others, iPRES 2006 conference 2006

<http://hdl.handle.net/1813/3693>

Thank you!

Digital Initiatives group

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- Purdue E-Archives opening page
<http://e-archives.lib.purdue.edu/index.php>
- Purdue Digital Initiatives web page
<http://www.lib.purdue.edu/spcol/digit/index.html>